# Special Issue

# Advances in Dynamics and Motion Control of Unmanned Aerial/Underwater/Ground Vehicles

## Message from the Guest Editor

Currently, the design of unmanned vehicles is a prominent topic of investigation, with a large range of applications such as civil and military activities, agriculture, transport, delivery operations, and surveillance. Unmanned vehicles are being developed to operate in various environments, including in the air, with UAVs; underwater, with UUVs or autonomous underwater vehicles (AUVs); and on the surface of the ground, with unmanned ground vehicles (UGVs). Dynamics and motion control techniques are very important for the design and construction of efficient vehicle systems to enhance safety and reliability. This Special Issue will deal with novel schemes for dynamics analysis and control techniques for aerial, underwater, and ground vehicle systems. We will discuss the recent advances and future challenges associated with the design issues of unmanned vehicles. We look forward to receiving your contributions.

## Guest Editor

Dr. Han Sol Kim
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## Deadline for manuscript submissions

closed (30 November 2024)

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# About the Journal

## Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of $1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

## Editors-in-Chief

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